

AMENDMENTS TO THE CLAIMS

Claims 1-19 (cancelled)

20. (previously presented) A power delivery device for providing an electrical signal for an electrochemical process wherein an object is operably connected to the power delivery device, the power delivery device comprising: a tracking power stage being operably connected to the object; an output power stage providing the electrical signal having an ac component and a dc component to the object, the output power stage being operably responsive to the tracking power stage wherein a dynamic power dissipated by the output power stage is minimized.

21. (previously presented) The power delivery device of claim 20 wherein the tracking power stage comprises: a controller being operably connected to the output power stage, the controller having a reference parameter input wherein the controller provides an input signal to the output power stage in response to the reference parameter and the electrical signal.

22. (previously presented) The power delivery device of claim 21 wherein the reference parameter input is a voltage.

23. (previously presented) The power delivery device of claim 22 wherein the reference parameter input is a current.

24. (previously presented) The power delivery device of claim 21 wherein the reference parameter input is power.

25. (previously presented) The power delivery device of claim 21 further comprising: a frequency modulator being operably connected to the controller and the object, the frequency modulator having a first input being operably connected to the output power stage and a second input being operably connected to a ripple reference for an ac signal parameter wherein the controller is operably responsive to the output of the frequency modulator.

26. (previously presented) The power delivery device of claim 25 wherein the ripple reference is approximately equal to or greater than 10 kHz.

27. (previously presented) The power delivery device of claim 25 wherein the ripple reference is approximately equal to or less than 1 mHz.